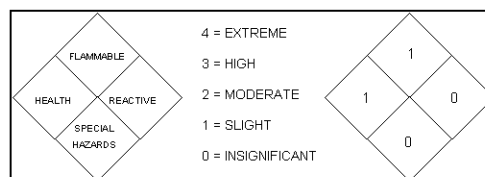


MATERIAL SAFETY DATA SHEET

GAF MATERIALS CORPORATION

ROYAL SOVEREIGN®, SENTINEL®, UNIVERSALHIP & RIDGE, SLATELINE®, SLATELINE® ALGAE EATER, ROYAL SOVEREIGN® ALGAE EATER™, SENTINEL® ALGAE EATER™, MARQUIS® ALGAE EATER™, MARQUIS® WEATHERMAX, JUMBO ROYAL SOVEREIGN®, UNIVERSAL STARTER STRIP



Manufacturer GAF MATERIALS CORPORATION		ROOFING SHINGLES	
Address 1361 Alps Road		Identity (Trade Name As Used On Label)	
Wayne, NJ 07470		MSDS Number* 1003	
Phone Number (For Information) 800-766-3411		CAS Number* None	
Emergency Phone Number (800) 424-9300		Date Prepared 11/22/88 rev. 05/03	
		Prepared By* A. A. Bondoc/P. Hennings	

NOTE: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS - Chemical Name & Common Names (Hazardous Components 1% or Greater; Carcinogens 0.1% or greater)	%*	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
SILICA, CRYSTALLINE QUARTZ CAS #14808-60-7	Approx. 4	See Table Z-3	*0.1 mg/m2	--
* Respirable Dust				
Non-Hazardous Ingredients	Approx. 96			
Total	100			

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	N/A	Specific Gravity (H2O = 1)	N/A
Vapor Pressure (mm Hg and Temperature)	N/A	Melting Point	N/A
Vapor Density (Air = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water	N/A	Water Reactive	N/A
Appearance and Odor	SHEETS, 3/16 INCH THICK, APPROX. 1 FT X 3 FT, GRANULES ON TOP, SAND ON BACK. SLIGHT ASPHALTIC ODOR.		

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method Used	Auto-ignition Temperature	Flammability Limits in Air % by Volume	LEL	UEL
>500F, COC	N/A	N/A	N/A	N/A
Extinguisher Media CO2, FOAM, DRY CHEMICAL OR WATER				
Special Fire Fighting Procedures// WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING				
Unusual Fire and Explosion Hazards NONE				

* Optional

OSHA 174

Page 1/2
MSDS GAF

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY	Stable	X	Conditions	N/A
-----------	--------	---	------------	-----

Unstable <input type="checkbox"/>		To Avoid
Incompatibility (Materials to Avoid) N/A		
Hazardous Decomposition Products THERMAL DECOMPOSITION MAY RELEASE CO, CO2, CARBON PARTICULATES, METHANE, AMMONIA, HYDROGEN CYANIDE AND HYDROGEN SULFIDE.		
HAZARDOUS POLYMERIZATION <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur		Conditions To Avoid N/A

SECTION 5 - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: <input checked="" type="checkbox"/> Inhalation <input type="checkbox"/> Skin Absorption <input type="checkbox"/> Ingestion <input type="checkbox"/> Not Haz		CARCINOGEN LISTED IN: <input type="checkbox"/> NTP <input checked="" type="checkbox"/> IARC Monograph <input type="checkbox"/> OSHA <input type="checkbox"/> Not Listed
HEALTH	Acute N/A	
HAZARDS	Chronic SILICA: LIMITATION OF EXPANSION OF THE CHEST, EMPHYSEMA.	
Signs and Symptoms of Exposure SILICA: SHORTNESS OF BREATH ON EXERTION, DRY COUGH		
Medical Conditions Generally Aggravated by Exposure SILICA: SHORTNESS OF BREATH ON EXERTION, DRY COUGH		
EMERGENCY FIRST AID PROCEDURES -		
Eye Contact N/A		
Skin Contact N/A		
Inhalation N/A		
Ingestion N/A		

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (Specify Type) N/A		
Protective Gloves N/A		Eye Protection SAFETY GLASSES WITH SIDE SHIELDS
VENTILATION	<input type="checkbox"/> Local Exhaust N/A	<input type="checkbox"/> Mechanical (General) N/A
TO BE USED	<input type="checkbox"/> Special N/A	<input type="checkbox"/> Other (Specify) USE SUFFICIENT NATURAL VENTILATION
Other Protective Clothing and Equipment N/A		
Hygienic Work Practices WASH HANDS AFTER APPLICATION		

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE/LEAK PROCEDURES

Steps to be Taken if Material is Spilled or Released PICK UP PIECES AND DISPOSE PROPERLY. VACUUM DUST. USE A DUST SUPPRESSANT IF SWEEPING IS NECESSARY.	
Waste Disposal Methods DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.	
Precautions to be Taken in Handling and Storage N/A	
Other Precautions and/or Special Hazards N/A	